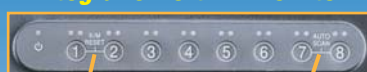


RACK-MOUNT FOLDAWAY™ 17" LCD/KEYBOARD/8-PORT KVM

Rack Mount a 17" Monitor, Keyboard, & KVM in Only 1U!
17" LCD • 1280 x 1024 • Keyboard with Touchpad • 8-Port KVM Switch

17" TFT LCD Color Display: 250 nits Brightness
 1280 x 1024 Pixels @ 16M Colors,
 120° Horizontal, 110° Vertical
 Viewing Angle

Integral 8-Port KVM Switch



**Keyboard/Mouse
Switch**

**Initiate
AutoScan Sequence**

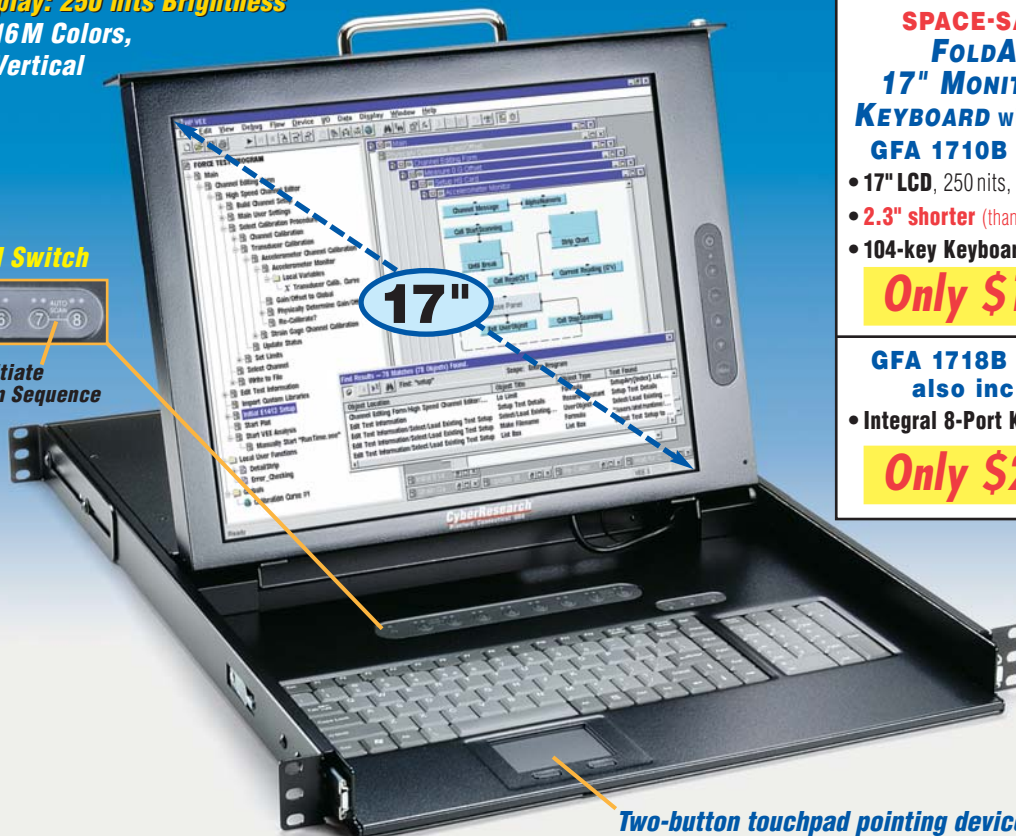
**On-Screen Display
Menu (OSD) for:**

- Auto-Adjustment
- Contrast
- Brightness
- Color Balance
- Color Temperature
- Horizontal Position
- Vertical Position
- Phase
- Pixel Clock
- Geometry
- Display Mode

Standard VGA Analog Input

No special LCD display card required!

GFA 1718B



Two-button touchpad pointing device

**8 KVM
ports**



19" Rack-Mount Enclosure (GFA 1718B rear view shown above)

- **TFT LCD Color Display:** 17" diagonal active matrix bright flat-screen display. Luminance: 250 nits (250cd/m²). Viewing Angle: 120° horizontal, 110° vertical. SXGA Video Resolution: 1280x1024 maximum, up to 16M colors. Pixel Pitch: 0.264mm. Contrast Ratio: 400:1. Horizontal Sync: 31.47kHz ~ 68kHz, Vertical Sync: 60 ~ 75Hz. VGA Input Pixel Rate: 100 MHz maximum. Display powers off when not in use or when folded down. Adjustable screen tilt.
- **Enclosure:** Heavy-duty steel black 19" rack-mount enclosure. Built-in handle and ball-bearing slides provide smooth pull-out action; locks into position. Key lock provides additional security. Steel cover protects internal cables in the rear of the unit.
- **Dimensions:** Only 1.75" (1U) high! **GFA 1710B:** 19" W x 1.75" H x 25.4" D (483 x 43 x 645 mm). Handle: 1.625" (42mm). Open height incl. handle: 15.1" Rack-Mt. Rear Bracket Depths: 22-25.4". Weight: 30.0lbs (13.59kg). **GFA 1718B:** 19" W x 1.75" H x 24.9" D (483 x 43 x 633 mm). Handle: 1.625" (42mm). Open height incl. handle: 14.0" Rack-Mt. Rear Bracket Depths: 23.9-27.1". Weight: 30.56lbs (13.86 kg).
- **Keyboard:** 104-key Windows® keyboard. Touchpad pointing device with two mouse buttons.

- **Controls:** Front-access sealed switches for display power on/off, contrast, brightness, and on-screen display (OSD) controls. OSD menu controls include auto-adjustment, brightness, contrast, color balance, color temperature, display geometry (horiz/vert position and size), phase/pixel clock, and display resolution. **GFA 1718B:** Control panel for 8-port KVM switch; see pictures shown above, see our website for full specifications and details.
- **I/O Ports:** Comes with a 6-ft. cable set with a purple PS/2 mini-DIN keyboard connector (male), a standard 15-pin mini D-sub VGA connector (male), and a standard green PS/2 mini-DIN mouse connector (male). **GFA 1718B:** 8 sets of KVM connectors on rear panel (see above).
- **Power Supply:** Input: 110-240VAC @ 48-62Hz, auto-sensing. **GFA 1710B consumption:** 45W max. (display on), 1W (power-save mode). **GFA 1718B:** 50W max, 3W (power-save mode).
- **Environmental:** Operating Temp.: +32° to +113°F (0° to +45°C). Storage: -4° to +140°F (-20° to +60°C). Relative Humidity: 10-85% noncond. (operating), 10-95% noncond. (storage). Safety: FCC-A, CE, EPA Energy Star, VESA DPMS, and emissions MPR-II. **GFA 1718B:** Same as GFA 1710B, except for Operating Temp.: +32° to +104°F (0° to +40°C).

Flip-Up & Fold-Away Tilt Screen

**Full-size keyboard with 104 keys,
including 12 function keys**



**Touchpad
pointing device**

**Lock restricts
system access**

Monitor turns off when LCD display is folded down.

Ordering Information:

Visit cyberresearch.com for detailed information.

GFA FOLDAWAY SPECIAL QUANTITY PRICING

Qty 1-4 Qty 5-9 Qty 10-24 Qty 25+

#GFA 1710B	1U FoldAway with 17" display (1280x1024)	\$1695	\$1610	\$1525	Call
#GFA 1718B	1U FoldAway w/ 8-port KVM and 17" display	\$2195	\$2085	\$1975	Call

Units Include: Display: 17" LCD color display. Keyboard: 104 keys plus integral two-button touchpad pointing device. Rack-Mount Drawer: Locking steel drawer keeps system secure by keeping unauthorized personnel out. Cabling: one 6-ft. KVM cable for 1 PC. **GFA 1718B:** Includes integral 8-port KVM switch. To connect more than one PC, order one GFA CBTxx cable per additional PC. For longer cable runs, use our KVM MFxxx cables to extend the KVM cable-to-PC length. See page 103 for KVM cable and extender ordering information.

#GFA CBT06 Thin KVM Cable, 6-ft. (use w/ GFA 1718B; see pg. 103 for more cables).....\$25/ea.

GFC 1716A: 1U FoldAway with 16-Port KVM Switch

17" LCD Display • 1280 x 1024 • Keyboard with Touchpad



**SPACE-SAVING
FoldAway WITH
16-PORT
KVM SWITCH**

**Share keyboard and
display with up to
16 separate PCs!**

GFC 1716A includes:

- 17" Color TFT LCD Display
250 nits (cd/m²), 1280 x 1024
- Full 105-key Keyboard
- Touchpad Pointing Device
- Easy-Access Controls

Only \$2495!

Monitor
turns off
when
LCD display
is folded
down.

**Need a 15" FoldAway™
with a touchscreen?**
Our GFA 1510A-TRx
is only \$1995!
Turn the page for details...



Push-Button Controls:
Up/Down
Activate OSD Menu
Auto-Adjustment
Display On/Off

**On-Screen
Display
Menu
(OSD) for:**

- Auto-Adjustment
- Brightness/Contrast
- Video Source
- Color Balance
- Color Temperature
- Language Selection
- Horizontal Position
- Vertical Position
- Factory Defaults

**Rugged
folding handle** **Two-button touchpad pointing device**



19" Rack-Mount Enclosure

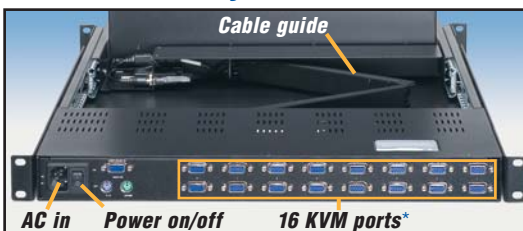


KVM Push-Button Controls Bank and 1-16

- **Display:** 17" TFT LCD active matrix flat-screen display. Brightness: 250 nits (250cd/m²). Viewing Angle: 120° horizontal, 100° vertical. SXGA Video Resolution: 1280x1024 maximum, up to 16M colors (dithering). Pixel Pitch: 0.263mm. Contrast Ratio: 350:1. Vertical Sync: 60Hz typical. VGA Input Pixel Rate: 100MHz maximum. Adjustable screen tilt. Display powers off when folded down (closed) or powered down by a PC or Windows®.
- **Enclosure:** Heavy-duty steel black 19" rack-mount enclosure. Built-in folding handle and ball-bearing slides provide smooth pull-out action. Thumbscrews keep unit from sliding out of the rack accidentally. Steel enclosure protects internal cables in the rear of the unit.
- **Dimensions:** **Only 1.75" (1U) high!** 19" W x 1.75" H x 25.5" D (483 x 44.5 x 647.7 mm). Protrusion from Rack (closed, including fully-extended handle): 1.43" (36 mm). Depth behind Panel: 24.9" (632 mm). GFC 1716A Weight: 38.2 lbs (17.3 kg).
- **Keyboard:** Full function 105-key Windows® keyboard includes 12 function keys. Touchpad pointing device provides two mouse buttons.

- **Controls:** Membrane push-button panel for up, down, menu, display power on/off; power LED indicator mounted on the front panel of the display. Membrane push-button panel for Bank and KVM ports 1 through 16 (one LED for each KVM). LEDs for Num Lock, Caps Lock, Scroll Lock.
- **Rear-Panel:** **KVM Ports:** 16 combination HD-15 female KVM ports; keyboard, video, and mouse signals are composited onto a single 15-pin connector. GFC 1716A includes one 6-foot cable **GFC CBL06A** to connect a PC to a combination KVM port. Use our KVM extender cables (KVM MF series, page 103) or our VGA extender cables (CBL VGAXMF series, see website) if you need longer cable lengths.
- **Power Supply:** Input: 110-240VAC @ 48-62Hz, auto-sensing. Power Consumption: 45 watts maximum with display on; 1 watt in power-saving off mode.
- **Environmental:** Operating Temp: +32° to +113°F (0° to +45°C). Storage: -4° to +140°F (-20° to +60°C). Relative Humidity: 10-85% noncond. (operating), 10-95% noncond. (storage). Certifications: FCC Part 15 Class B, ICES-003 Class B, CE, and SWEDAC (MPR-II).

GFC 1716A Easy-Access Rear Ports



*The GFC 1716A cuts down on your setup time and minimizes cable clutter by compositing KVM signals through one specialized HD15 connector and unique KVM cables!

v22AMay2006

Ordering Information:

Visit cyberresearch.com for detailed information.

GFC 1716A SPECIAL QUANTITY PRICING		Qty 1-4	Qty 5-9	Qty 10-24	Qty 25+
#GFC 1716A	1U FoldAway 16-port KVM w/ 17" display	\$2495	\$2370	\$2245	Call
#GFC 1716A-K	GFC 1716A w/ 16 GFC CBL06A cables (save \$75)	\$2795	\$2655	\$2515	Call

GFC 1716A includes: Display: 17" TFT LCD color display, 250 nits, 1280x1024 pixels. Keyboard: 105 keys including 12 function keys plus integral two-button touchpad pointing device. Rack-Mount Drawer: Ball-bearing glide rails with folding steel handle make drawer action smooth and uniform. Cabling: GFC 1716A-K includes 16 6-foot KVM cables. Please note that KVM cables with 3 connectors on each end (GFA-series or GFM-series) do not function with the GFC 1716A. Please call for specialty-length KVM cables for the GFC 1716A.

#GFC CBL06A 6-foot Combination KVM Cable (HD15 to KVM connectors)\$25/ea.

#GFC CBL10A 10-foot Combination KVM Cable (HD15 to KVM connectors)\$40/ea.

1U RACK-MOUNT FOLDAWAY™ WITH OPTIONAL TOUCHSCREEN

GFA 1510A: Finally... a FoldAway with a Touchscreen Option!

NEW!!
Optional Resistive
Touchscreen
RS-232 or USB
versions available

Pushbutton Controls

- Display on/off
- Contrast control +/-
- Brightness up/down
- Activate On-Screen Display Menu (OSD)

SPACE-SAVING GFA 1510A-TRx FOLDAWAY WITH RS-232 OR USB TOUCHSCREEN

Ideal for users who are not touch typists!

GFA 1510A-TRx includes:

- Analog Resistive Touchscreen
- 15" Color TFT LCD Display
230 nits (cd/m²), 1024 x 768 max.
- Full 104-key Keyboard
- Touchpad Pointing Device

Only \$1995!

Economy version without touchscreen also available

15"

**Our GFA 1510A
FoldAway saves you
valuable rack space!!**



Industrial Touchpad

- Touch pointing device
- Two mouse buttons

Full-Size Keyboard

- 104 keys, including 12 function keys and a 17-key numeric keypad

Keyboard Indicators

- Num Lock
- Caps Lock
- Scroll Lock

- **TFT LCD Display:** 15" diagonal. Luminance: 230nits (230cd/m²). Viewing Angle: 160° horiz. & vert. Resolution: 1024x768, up to 16M colors (dithering). Maximum color depth: 24 bits. Pixel Pitch: 0.3mm. Contrast Ratio: 400:1. Horiz. Sync.: 31.47 kHz-68kHz, Vert. Sync.: 60-85Hz. Display powers off when not in use. Adjustable screen tilt. Standard Analog VGA input.
- **Optional Analog Resistive Touchscreen:** Requires one available RS-232 or one USB port on PC. Touchscreen signals carried to PC via a separate DB-9 serial cable or USB cable.
- **Keyboard:** Full-function 104-key Windows® keyboard with a 17-key numeric keypad and 12 function keys. Touchpad pointing device with two mouse buttons. Short-travel keys are compatible with touch typing.
- **Controls:** Front-access sealed switches for display power on/off, on-screen display OSD menu controls include auto-adjustment, brightness, contrast, color balance, color temperature, display geometry (horizontal and vertical position and size), phase/pixel clock, & display mode (from DOS text/640x400 to full-color 1024x768).

- **I/O Ports:** Includes a 5-foot cable set with a standard HD15 male VGA connector and male PS/2 mini-DIN keyboard and mouse connectors. Touchscreen uses RS-232 or USB interface.
- **Power Supply:** Input: 110-240VAC @ 48-62Hz, autosensing. Consumption is 35W maximum with display on; 1W in power-saving off mode.
- **Environmental:** Operating Temp: +32° to +113°F (0° to +45°C). Storage: -4° to +140°F (-20° to +60°C). Relative Humidity: 10-85%, noncondensing. Compliance: Meets FCC Part 15-A, CE, UL, EPA Energy Star, and DPMS standards.
- **Enclosure:** Black heavy-duty steel 19" rack-mount enclosure. Built-in handle & ball-bearing slides provide smooth pull-out action; locks into position. Built-in keylock with two keys for security. Convection cooled - unit runs in silence.
- **Dimensions:** Only 1.75" (1U) high! 19" W x 1.75" H x 22.2" D (483 x 43 x 564 mm). Handle: 1.6". Open height including handle: 12.8". Travel: 15.1". Rack-mount rear bracket depth: 19.7"-26.6". Weight: 19.54lbs (8.86kg).

**A 5-foot cable set connects
your GFA 1510A
to your PC**

**Easy-to-Open
Fold-Up Display**



**Display
turns off
when LCD
display is
folded down.**

**EPA Energy Star design
reduces power consumption
and extends display life.**

Ordering Information:

Visit cyberresearch.com for detailed information.

GFA 1510A SPECIAL QUANTITY PRICING

Qty 1-4 Qty 5-9 Qty 10-24 Qty 25+

#GFA 1510A-TRS	1U FoldAway with Touchscreen (RS-232).....	\$1995	\$1895	\$1795	Call
#GFA 1510A-TRU	1U FoldAway with Touchscreen (USB)	\$1995	\$1895	\$1795	Call
#GFA 1510A	1U FoldAway w/ 15" LCD (non-touchscreen) ...	\$1495	\$1420	\$1345	Call

GFA 1510A includes: Display: 15" LCD. Keyboard: 104 keys w/ two-button touchpad pointing device. Rack-Mt Drawer: Locking steel drawer keeps system secure by keeping unauthorized personnel out. Touchscreen Models: Analog resistive; RS-232 or USB interface connector. Cabling: One 5-foot KVM cable for 1 PC. For longer cable runs, use GFA CBTxxx cables to extend the KVM cable-to-PC length. See page 103 for detailed KVM cable & extender ordering info.

#GFA 1515 Special Narrow Version of GFA 1510A (only 15" wide to fit narrow spaces, no lock)...\$2495

QUANTITY DISCOUNTS: 1-4/LIST 5-9/5% 10-24/10% 25+/CALL

Quantities of a Single Item Per Shipment - Call for Details

FOLDaway™ W/8-PORT KVM (KEYBOARD-VIDEO-MOUSE) SWITCH

GFA 1518B: 1U FoldAway with Integral 8-Port KVM Switch!

NEW PRODUCTS

MONITORS / DISPLAYS / SWIVEL ARMS

KEYBOARDS

PC ACCESSORIES / DRIVES

DATA ACQUISITION

CYDAS / METRABYTE COMPATIBLES

INDEX

FOLDaway WITH 8-PORT KVM SWITCH

Share a Keyboard & Display with up to 8 separate PCs!

Rack-Mount Monitor & Touchpad Keyboard

GFA 1518B includes:

- 15" Color TFT LCD display
230 nits (cd/m²), 1024 x 768 max.
- Full-size, 104-key keyboard
- Touchpad pointing device
- Use with 1 to 8 PCs (8 ports)
- AutoScan PC monitoring

Only \$1995!

KVM!

19" Rack-Mount Enclosure

Pushbutton Controls

- Display On/Off
- Contrast Control +/-
- Brightness Up/Down
- Activate On-Screen Display Menu (OSD)

On-Screen Display Menu (OSD) for:

- Auto-adjustment, Contrast, Brightness, Color Balance, Color Temperature, H-Position, V-Position, Phase/Pixel Clock, Geometry, & Display Mode

Standard VGA Analog Input

NEW! GFA CBT Series Thin KVM Cables

Kbd/Mouse Reset Initiate AutoScan Sequence

Connect Up to 8 PCs with Built-In KVM Switch (Keyboard + VGA + Mouse)



Select the PC channel using the 8 push-button channel selector switches, Hot Keys, or via the On-Screen Display (OSD) Menu with AutoScan. You can scan for effortless monitoring — the switch pauses for 3-30 seconds at each PC, and it automatically skips PCs that are off!

KVM cables on GFA 1518B are protected by a folding cable guide

- **LCD Display:** 15" diagonal. Luminance: 230 nits (cd/m²). Viewing Angle: 160° H & V. Resolution: 1024 x 768, 16M colors max (dithering). Pixel Pitch: 0.29mm. Contrast Ratio: 300:1. Horiz. Sync.: 31.47kHz-68kHz, Vert. Sync.: 60-85Hz. Display powers off when not in use. Adjustable screen tilt. Analog VGA input.
- **Keyboard:** 104-key Windows® keyboard with 17-key numeric keypad & 12 function keys. Touchpad with two mouse buttons.
- **Controls:** Front-access sealed switches for display power on/off, on-screen display (OSD) controls, brightness, and contrast (see website for details).
- **8-port KVM Switch** lets you monitor up to 8 separate PCs (switches among the keyboard, VGA, & mouse ports). Built-in AutoScan feature skips PCs that are off, so you can monitor active PCs from across the room. You can label each PC with a name stored in nonvolatile memory, so that the name of each system is displayed when it is called up onscreen. You can select how long it pauses at each PC during scanning (3, 8, 15, or 30 sec.). Keyboard states are automatically saved & restored when switching PCs. Optional adapters provide support for AT (5-pin) keyboard ports & for serial mouse ports. One port (your choice) can be password-locked. Cascade up to 64 PCs.
- **I/O Ports:** Standard HD15 male VGA connector and male PS/2 mini-DIN keyboard and mouse connectors. Includes detachable power cord, & one 6-foot KVM cable for keyboard/video/mouse connection. Requires 1 KVM cable per attached PC (available in 6', 10', 15', & 25' lengths). KVM extender cables allow you to locate PCs as much as 106 feet from the switch.
- **Power Supply:** Input: 110-240Vac @48-62Hz, autosensing. Consumption: 45W max. (display on); 1-watt in power-save mode.
- **Environmental:** Op. Temp: +32° to +113°F (0° to +45°C). Storage: -4° to +140°F (-20° to +60°C). Relative Humidity: 10-85%, noncondensing. Compliance: FCC Part 15-A, CE, UL, EPA Energy Star, DPMS.
- **Enclosure:** Heavy-duty steel black 19" rack-mount enclosure. Built-in handle & ball-bearing slides provide smooth pull-out action; locks into position. Keylock for security. Telescoping cable guide protects internal cables.
- **Dimensions:** Only 1.75" (1U) high! 19" W x 1.7" H x 23.6" D (483 x 43 x 599 mm). Handle: 1.62", Open height including handle: 13.8", Travel: 16.0", Rack-Mount Rear Bracket Depth: 20"-26", Weight: 28.9 lbs (13.1 kg).

Ordering Information:

Visit cyberresearch.com for detailed information.

GFA 1518B SPECIAL QUANTITY PRICING

Qty 1-4 Qty 5-9 Qty 10-24 Qty 25+

#GFA 1518B 1U FoldAway with 8-Port KVM Switch\$1995 \$1895 \$1795 Call

GFA 1518B Includes: A 15.1" LCD, 104-key keyboard, plus an integral touchpad and wrist rest in a black 19" x 1U (1.75" high) rack-mount enclosure. **GFA 1518B** includes a 6-foot KVM cable for 1 PC. For additional PCs, order one **GFA CBTxx** cable per additional PC. For longer cable runs, use our **KVM MFxxx** cables to extend the KVM cable-to-PC length.

KVM CABLES, ADAPTERS, & EXTENDERS FOR GFA SERIES FOLDaway UNITS

#GFA CBT06 Thin KVM Cable, 6-ft. (used to connect Keyboard/Video/Mouse signals from 1 PC to GFA 1518B).....\$25
 #GFA CBT10 Thin KVM Cable, 10-ft. (used to connect Keyboard/Video/Mouse signals from 1 PC to GFA 1518B).....\$35
 #GFA CBT15 Thin KVM Cable, 15-ft. (used to connect Keyboard/Video/Mouse signals from 1 PC to GFA 1518B).....\$45
 #GFA CBT25 Thin KVM Cable, 25-ft. (used to connect Keyboard/Video/Mouse signals from 1 PC to GFA 1518B).....\$60

Adapters: #CBA PS2SER PS/2 (F) to 9-pin Serial Mouse (F).....\$5 #CBA PS2AT PS/2 (F) to 5-pin Keyboard (M).....\$5

Extender Cables: Our KVM MFxxx cables extend the KVM connection (adds xxx feet to GFA CBTxx cables above).

#KVM MF005 KVM Extender Cable (M-F), 5-ft.....\$59 #KVM MF025 KVM Extender Cable (M-F), 25-ft.....\$99
 #KVM MF010 KVM Extender Cable (M-F), 10-ft.....\$69 #KVM MF050 KVM Extender Cable (M-F), 50-ft.....\$149
 #KVM MF020 KVM Extender Cable (M-F), 20-ft.....\$89 #KVM MF100 KVM Extender Cable (M-F), 100-ft.....\$249

QUANTITY DISCOUNTS: 1-4: LIST 5-9: 5% 10-24: 10% 25+: CALL QUANTITIES OF A SINGLE ITEM PER SHIPMENT. CALL FOR DETAILS.

v22AMay2006

Toll-Free Assistance: 1-800-341-2525 (USA) Tel: 203-483-8815 Fax: 203-483-9024

www.cyberresearch.com

103

Applications Engineers: Monday - Friday, 9:00 AM - 5:00 PM, U.S. Eastern Time • e-mail: info@cyberresearch.com

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Visit our website for detailed product information!

GFM 1508: A 15" LCD, Keyboard, Trackball, & KVM in 1U!

1024 x 768 LCD • Full-Travel Keyboard • 3-Button Trackball • 8-Port KVM

GFM 1508 FOLDaway WITH 15" MONITOR, FULL-TRAVEL KEYBOARD, TRACKBALL, & KVM

- 15" LCD, 250 nits, 1024 x 768 max.
- Full-travel 105-key Windows® keyboard for easier touch typing
- Intuitive 3-button trackball
- Rugged all-steel construction
- Integral 8-port KVM switch
- Smooth ball-bearing slides
- Folding internal cable guide
- Adjustable rear mounting bracket: 1.87 to 2.96 feet
- Display turns off automatically when folded down
- 6-foot KVM cable included: optional cables up to 25 feet long
- Keylock for added protection

Only \$1995!

15" TFT LCD Color Display
250 nits Brightness
1024 x 768 Pixels
@ 16M Colors,
120° Horiz., 100° Vert.
Viewing Angle

Push-Button Controls:

Increase • Decrease
OSD Menu • Auto Adjustment
Display On/Off • Power LED



KVM control panel

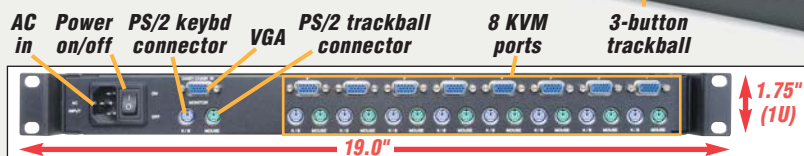


Smooth ball-bearing slides

GFM 1508
Economy version
(GFM 1501)
without 8-port KVM
also available!
See ordering
information below

Keylock
for added
security

Standard VGA Analog Input
No special LCD display card required!



Standard VGA & PS/2 connectors make cabling easy!

Rear View

- **TFT LCD Color Display:** 15" active matrix bright flat-screen display. Luminance: 250 nits (cd/m²). Viewing Angle: 120° H, 100° V. XGA Video Resolution: 1024 x 768 max., up to 16M colors. Pixel Pitch: 0.298 mm. Contrast Ratio: 350:1. Horiz. Sync: 48.3 kHz ~ 75 kHz, Vert. Sync: 60 ~ 75 Hz. VGA Input Pixel Rate: 100 MHz max. Display powers off when not in use or when folded down.
- **Enclosure:** Black heavy-duty steel 19" rack-mount enclosure. Built-in handle and ball-bearing slides provide smooth pull-out action; locks into position. Keylock provides additional security. Cable guide management system protects internal cables in the rear of the unit.
- **GFM 1508 (with KVM):** Only 1.75" (1U) high! 19" W x 1.75" H x 23.2" D (483 x 45 x 587 mm, incl. handle). Handle: 1.14" (29 mm). Open height incl. handle: 13.3" (337 mm). Rack-Mount Rear Bracket Depths: 22.4~35.5" (570~903 mm), variable. Weight: 25.02 lbs (11.35 kg).
- **GFM 1501 (non-KVM):** Only 1.75" (1U) high! 19" W x 1.75" H x 20.2" D (483 x 45 x 512 mm, incl. handle). Handle: 1.14" (29 mm). Open height incl. handle: 13.3" (337 mm). Rack-Mount Rear Bracket Depths: 20.3~35.4" (515~899 mm), variable. Weight: 21.3 lbs (9.65 kg).

- **Keyboard:** Standard 105-key full-travel Windows® keyboard with 0.17" (4.4mm) key travel. Three-button plastic trackball pointing device with ball-and-encoder tracking mechanism.
- **Controls:** Front-Access Switches: Display power on/off & on-screen display (OSD) controls. OSD Menu Controls: Brightness, contrast, RGB color adjustment, horizontal position & size, vertical size, color temp, language for OSD controls, position of OSD controls, reset to factory defaults, phase, automatic adjustment, and reset to last OSD setting. Rear-access on/off power switch. GFM 1508: Control panel for 8-port KVM located above keyboard (see picture above).
- **Cabling:** Includes one 6-ft. cable set with a PS/2 mini-DIN keyboard connector (male), a standard HD-15 male VGA connector, & a standard PS/2 mini-DIN mouse/trackball connector (male).
- **Power Supply — GFM 1501:** Input: 110~240VAC, 47~63 Hz, auto-ranging. Consumption: <1A max. GFM 1508: Input: 100~240VAC, 47~63 Hz, auto-ranging. Consumption: ~0.48A
- **Environmental:** Operating Temperature: +32° to +122°F (0° to 50°C). Storage Temperature: -4° to +140°F (-20° to +60°C). Relative Humidity: 10~90% noncondensing (operating & storage).

GFM 1501



Cable guide management system reduces stress and tension on cables

Adjustable rack depth allows for easy installation!

Ordering Information:

Visit cyberresearch.com for detailed information.

GFM 150x FOLDaway SPECIAL QUANTITY PRICING

	Qty 1-4	Qty 5-9	Qty 10-24	Qty 25+
#GFM 1508 1U FoldAway with 8-port KVM & 15" LCD	\$1995	\$1895	\$1795	Call
#GFM 1501 1U FoldAway with 15" LCD (1024 x 768); non-KVM ...	\$1495	\$1420	\$1345	Call

Units Include: Display: 15" LCD. Keyboard: 105 full-travel keys plus integral 3-button trackball pointing device. Rack-Mount Drawer: Locking steel drawer keeps system secure by keeping unauthorized personnel out. Cabling: one 6-ft. KVM cable for 1 PC. For longer cable runs, use GFM CBLxxx cables to extend the KVM cable-to-PC length.

#GFM CBL06 KVM Cable, 6 ft. (connects KVM signals from 1 PC to GFM 150x)	\$25/ea.
#GFM CBL10 KVM Cable, 10 ft. (connects KVM signals from 1 PC to GFM 150x)	\$35/ea.
#GFM CBL15 KVM Cable, 15 ft. (connects KVM signals from 1 PC to GFM 150x)	\$45/ea.
#GFM CBL25 KVM Cable, 25 ft. (connects KVM signals from 1 PC to GFM 150x)	\$65/ea.

QUANTITY DISCOUNTS: 1-4: List 5-9: 5% 10-24: 10% 25+: Call **QUANTITIES OF A SINGLE ITEM PER SHIPMENT. CALL FOR DETAILS.**

Keyboards from CyberResearch: Detailed Specifications

Includes Rack-Mount, Panel-Mount, and Desktop/Benchtop Models

Keyboard Comparison Chart

Part Number	Page Number		Basic Unit Price See page for ordering info.		Keyboard Connector Compatibility		Protective Rating	Total Number of Keys			Key Type	Pointing Device	Pointing Dev. Connector Compatibility			KVM Switch Capacity	TFT LCD Display Size, in.	Display Brightness, nits	Weight, lb (kg)	Dimensions Width x Height x Depth
	PS/2	DIN	USB	No. of Data-Entry Keys	No. of Function Keys	PS/2		DB-9	USB											
Rack-Mount Keyboard/Display Combinations																				
#GFA 1510A	102	\$1495	Y	—	—	NEMA 1	104	92	12	Low Profile	Touchpad Ⓟ	Y	—	—	—	15"	230	19.5lb (8.86 kg)	19x1Ux22.2"	
#GFM 1501	104	\$1495	Y	—	—	—	105	93	12	Full Travel	Trackball	Y	—	—	—	15"	250	21.3lb (9.65 kg)	19x1Ux20.2"	
#GFM 1508	104	\$1995	Y	—	—	—	105	93	12	Full Travel	Trackball	Y	—	—	8	15"	250	25.0lb (11.35 kg)	19x1Ux23.2"	
#GFA 1515	Call	\$2495	Y	—	—	NEMA 1	88	76	12	Low Profile	Touchpad	Y	—	—	—	15"	230	18.9lb (8.57 kg)	15x1Ux14.9"	
#GFA 1518B	103	\$1995	Y	—	—	NEMA 1	104	92	12	Low Profile	Touchpad	Y	—	—	8	15"	230	28.9lb (13.11 kg)	19x1Ux23.6"	
#GFA 15H	Call	\$2995	Y	—	—	NEMA 1	104	92	12	Low Profile	Touchpad	Y	—	—	—	15"	1800	23lb (10.43 kg)	19x2Ux21.5"	
#GFA 1710B	100	\$1695	Y	—	—	NEMA 1	104	92	12	Low Profile	Touchpad	Y	—	—	—	17"	250	30.0lb (13.59 kg)	19x1Ux25.4"	
#GFA 1718B	100	\$2195	Y	—	—	NEMA 1	104	92	12	Low Profile	Touchpad	Y	—	—	8	17"	250	30.6lb (13.86 kg)	19x1Ux24.9"	
#GFC 1716A	101	\$2495	Y	—	—	—	105	93	12	Low Profile	Touchpad	Y	—	—	16	17"	250	38.2lb (17.39 kg)	19x1Ux25.5"	
Rack-Mount Keyboards without Display																				
#OIX 1910	106	\$195	YⓅ	—	YⓊ	NEMA 1	107	95	12	Full Travel	Touchpad	YⓅ	—	YⓊ	—	—	—	12.9lb (5.86 kg)	19x1Ux13.5"	
#OIX 1610	106	\$350	Y	Y	—	NEMA 1	104	92	12	Full Travel	Touchpad	Y	Y	—	—	—	—	10.7lb (4.85 kg)	19x1Ux15.0"	
#OIX 1310A	107	\$195	Y	—	—	NEMA 1	107	95	12	Full Travel	Trackball	Y	Y	Y	—	—	—	13.2lb (5.99 kg)	19x1Ux13.5"	
#OIX 1410-PS2	107	\$595	Y	—	—	NEMA 1	104	92	12	Full Travel	Trackball	Y	—	—	—	—	—	10.4lb (4.74 kg)	19x1Ux12.0"	
#OIX 1711	107	\$195	Y	Y	—	NEMA 1	105	93	12	Full Travel	Mouse	Y	—	Y	—	—	—	12.1lb (5.47 kg)	19x1Ux15.3"	
#OIX 4102	111	\$195	Y	—	—	NEMA 4X	105	93	12	Membrane	—	—	—	—	—	—	—	4.1lb (1.85 kg)	19x3Ux1.2"	
#OIX 4110	107	\$395	—	Y	—	NEMA 12	105	93	12	Membrane	Touchpad	Y	—	—	—	—	—	14.0lb (6.35 kg)	19x1Ux18.3"	
#OIX 4131-P	Call	\$495	Y	—	—	NEMA 4	105	93	12	Membrane	Touchpad	Y	—	—	—	—	—	2.9lb (1.3 kg)	19x3Ux2.0"	
#OIX 4132	Call	\$745	YⓅ	—	YⓊ	NEMA 4	105	93	12	Membrane	1.5" Trackball	Y	—	—	—	—	—	3.2lb (1.5 kg)	19x3Ux2.4"	
#OIX 4132-U	Call	\$745	—	—	Y	NEMA 4	105	93	12	Membrane	1.5" Trackball	—	—	Y	—	—	—	3.2lb (1.5 kg)	19x3Ux2.4"	
#OIX 7114	111	\$795	YⓅ	Y	YⓊ	NEMA 12	114	94	20	Sealed Rubber	Mouse Button	YⓅ	Y	YⓊ	—	—	—	12.8lb (5.79 kg)	19x1Ux15.0"	
Panel-Mount Keyboards																				
#OIX 4121-P	Call	\$495	Y	—	—	NEMA 4	105	93	12	Membrane	Touchpad	Y	—	—	—	—	—	2.1lb (0.95 kg)	19x7.0x1.8"	
#OIX 4122-P	Call	\$695	Y	—	—	NEMA 4	105	93	12	Membrane	1.5" Trackball	Y	—	—	—	—	—	2.5lb (1.1 kg)	19x7.0x2.0"	
#OIX 5121-P	Call	\$395	Y	—	—	NEMA 4	83	73	10	Sealed Rubber	Touchpad	Y	—	—	—	—	—	1.2lb (0.55 kg)	16.0x5.3x0.6"	
#OIX 5122-P	Call	\$595	Y	—	—	NEMA 4	83	73	10	Sealed Rubber	1.5" Trackball	Y	—	—	—	—	—	1.5lb (0.7 kg)	16.0x5.3x1.8"	
#OIX 5141-P	Call	\$395	Y	—	—	NEMA 4	83	73	10	Sealed Rubber	Touchpad	Y	—	—	—	—	—	1.2lb (0.55 kg)	16.2x5.6x0.6"	
#OIX 5221-P	Call	\$495	Y	—	—	NEMA 4	83	73	10	Sealed Rubber	Touchpad	Y	—	—	—	—	—	1.2lb (0.55 kg)	16.0x5.3x0.6"	
#OIX 5222-P	Call	\$695	Y	—	—	NEMA 4	83	73	10	Sealed Rubber	1.5" Trackball	Y	—	—	—	—	—	1.5lb (0.7 kg)	16.0x5.3x1.8"	
#OIX 5320-P	Call	\$595	Y	—	—	NEMA 6	84	72	12	Sealed Metallic	—	—	—	—	—	—	—	3.3lb (1.51 kg)	11.6x5.7x1.3"	
#OIX 7114P	111	\$695	YⓅ	Y	—	NEMA 4X	114	94	20	Sealed Rubber	Mouse Button	YⓅ	Y	—	—	—	—	6.0lb (2.73 kg)	17.7x9.2x2.0"	
Desktop/Benchtop Keyboards																				
#OIX 2107	107	\$45	Y	—	—	NEMA 1	104	92	12	Full Travel	—	—	—	—	—	—	—	1.6lb (0.7 kg)	18.1x7.7x1.5"	
#OIX 3116B-U	110	\$249	—	—	Y	NEMA 6	104	92	12	Sealed Rubber	—	—	—	—	—	—	—	1.5lb (0.7 kg)	14.9x5.6x0.6"	
#OIX 4087-P	109	\$295	Y	—	—	NEMA 6	87	75	12	Sealed Rubber	Mouse Button	Y	—	—	—	—	—	2.1lb (0.95 kg)	11.9x1.8x6.9"	
#OIX 4107	Call	\$345	—	Y	—	NEMA 4	104	92	12	Membrane	Touchpad	—	Y	—	—	—	—	2.7lb (1.3 kg)	15.0x6.9x1.2"	
#OIX 4108	110	\$295	YⓅ	—	YⓊ	NEMA 4	108	96	12	Sealed Rubber	Mouse Button	YⓅ	—	YⓊ	—	—	—	2.9lb (1.3 kg)	16.0x5.7x1.0"	
#OIX 4116D	110	\$595	YⓅ	—	YⓊ	NEMA 4X	116	92	24	Sealed Rubber	Mouse Button	Y	—	—	—	—	—	2.2lb (1.0 kg)	15.0x6.6x1.8"	
#OIX 5101-P	Call	\$695	Y	—	—	NEMA 4	83	73	10	Sealed Rubber	Touchpad	Y	—	—	—	—	—	5.1lb (2.3 kg)	17.2x6.5x1.8"	
#OIX 5102-P	Call	\$895	Y	—	—	NEMA 4	83	73	10	Sealed Rubber	1.5" Trackball	Y	—	—	—	—	—	5.4lb (2.5 kg)	17.2x6.5x1.9"	
#OIX 6805-P	108	\$495	Y	—	—	NEMA 6	105	93	12	Sealed Rubber	Mouse Button	Y	—	—	—	—	—	3.1lb (1.4 kg)	15.3x5.7x1.1"	
#OIX 7005B	109	\$595	YⓅ	—	YⓊ	NEMA 4X	102	90	12	Sealed Rubber	Mouse Button	YⓅ	—	YⓊ	—	—	—	1.6lb (0.74 kg)	14.6x0.9x5.5"	
#OIX 7105B	109	\$595	YⓅ	—	YⓊ	NEMA 4X	102	90	12	Sealed Rubber	Mouse Button	YⓅ	—	YⓊ	—	—	—	1.6lb (0.74 kg)	14.7x1.7x5.7"	
#OIX 7114D	110	\$695	YⓅ	Y	—	NEMA 4X	114	94	20	Sealed Rubber	Mouse Button	YⓅ	Y	—	—	—	—	6.0lb (2.73 kg)	16.3x7.9x1.4"	
#OIX 7116-U	111	\$595	—	—	YⓊ	NEMA 4X	116	92	24	Sealed Rubber	Mouse Button	—	—	YⓊ	—	—	—	2.2lb (1.0 kg)	15x7.2x1.6"	

NOTES: R Option Saves \$45. When you add "-R" to an OIX part number and order it with a computer system, we provide it in place of the standard keyboard. This discount does not apply to GFA/GFC/GFM series "FoldAway" keyboard/monitors. Many keyboards come in black or beige; see the detailed ordering information on the referenced page. Ⓟ Version available with PS/2 keyboard and touchpad connectors; please see Ordering Information box on referenced page. Ⓢ Touchscreen model available; please see referenced page for details. Ⓤ Version available with USB keyboard and touchpad connectors; please see referenced page for details. Ⓡ RF wireless keyboard with USB dongle; keyboard powered by three AA batteries (for additional information and pictures, please see pg. 14).

QUANTITY DISCOUNTS: 1-4/LIST 5-9/5% 10-24/10% 25+/CALL Quantities of a single item per shipment. Call for details.

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105

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INDEX

OIX 1910: 1U Rack-Mount Keyboard with Two-Button Touchpad Pointing Device!



Our **OIX 1910** is an EIA standard 19" rack-mounting drawer with a 107-key Windows®-style keyboard, including 12 function keys, 6 Windows keys, and a 26-key keypad.

The keyboard drawer is 19"W x 1.75" (1U) H x 13.5"D (483x45 x 343mm). When fully extended, the rack drawer pulls out 11.9" (302mm) from the rack, 13.8" (351mm) including front handle. Weight: 12.9lbs. (5.86kg).

Call to special-order the keyboard without the rack drawer for use on the desktop. Beige version offers a beige keyboard; black version has a black keyboard.

PS/2 models support Windows 95/98/NT/2000/XP. USB-based models (available in beige color only) support Windows 98/2000/XP.

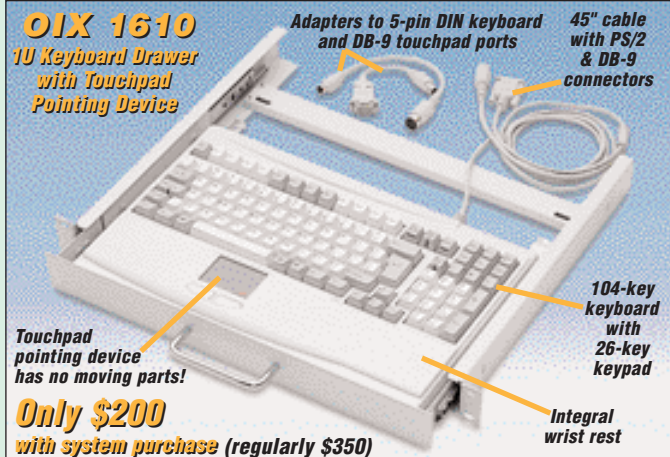


Black version also available:
#OIX 1910B (PS/2 only!)



Purchase the OIX 1910 with any CyberResearch PC system and save \$45!

OIX 1610: Buy with System and Save \$150!



Our **OIX 1610** is a 19" rack-mount drawer and 104-key Windows keyboard with wrist rest. The integral touchpad pointing device has no moving parts for high reliability — it appears to your PC as a standard serial mouse. A 5-pin to PS/2-style keyboard adapter as well as a DB-9 to PS/2 pointing device adapter are included for easy connection to AT-style PCs.

The keyboard drawer is 19"W x 1.75" (1U) H x 15.0"D (483x45x381mm). When fully extended, the rack drawer pulls out 10.7" (270mm) from the rack, 12.2" (310mm) including front handle. Weight: 10.7 lbs. (4.85 kg). Beige or black case versions available (keyboard is beige for both).



With black case: #OIX 1610B



SAVE \$150
Special Package Offer!

Combine the OIX 1610 with any PC system and pay only \$200 for the keyboard!



1U Rack-Mount Keyboard & Mouse with MousePocket™ Storage Compartment

OIX 1711
1U Keyboard Drawer with MousePocket™
1711B: black case
1711W: beige case



Also available in beige
#OIX 1711W

Full-size keyboard allows for easy touch typing

Mousepad surface plate can be set up for right- or left-handed use!



\$195

Our **OIX 1711** rack-mount keyboard with mouse adds the familiar, intuitive feel of a mouse to your rack-mount PC system. When fully extended, the heavy-duty steel drawer provides a full-size keyboard. In front of the keyboard is a raised area covered with a durable mousepad surface and a MousePocket™ storage compartment. The mousepad and MousePocket can be easily user-configured for right- or left-handed use — all it takes is a screwdriver! A full-size Microsoft® mouse is included with each keyboard (maximum mouse height is 1.5"; for optional **OIX MMS** optical mini-mouse see page 14).

The drawer body measures 17.20"W (19" with rack-mount flanges) x 1.75" (1U) H x 15.32"D (437 x 45 x 389 mm). When fully extended, drawer measures 12.08" from rack front panel (13.99" including front handle). Weight: 12.1 lbs. (5.47kg). See ordering information on p. 107.

RACK-MOUNT KEYBOARDS WITH TRACKBALL OR HULAPOINT™



OIX 1310 Low-Cost Trackball Keyboard

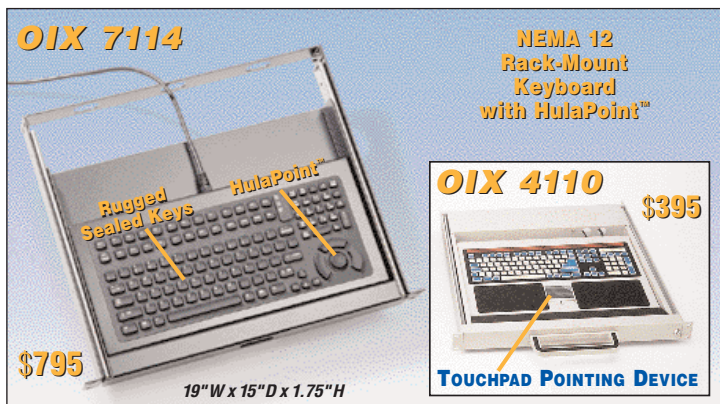
Our **OIX 1310** features large wrist rests with a two-button trackball pointing device in the center. Full-travel keys make this keyboard suitable for typing, not just occasional data entry. Not only is it very comfortable to use, the OIX 1310 is the most reasonably priced rack-mount trackball keyboard we've found. It uses 13.5" of rack depth, with a handle that protrudes 1.9". The OIX 1310 has PS/2 trackball and keyboard connectors and includes USB and DB-9 serial adapters for the trackball connector.

OIX 1410 Metal-Frame Trackball Keyboard

The **OIX 1410** is mounted in a rugged aluminum and steel case which slides in and out of the rack housing. Its compact 2-button trackball is centered under the space bar and emulates a serial mouse. The keyboard slides out with ease and firmly locks into position, yet it can be unlocked and put away with a single finger. A latching door protects the unit when not in use. The door is spring-loaded for easy opening and closing. The OIX 1410 provides an excellent tactile feel, a full 104-key layout (including two Windows® keys and a right-mouse-button key), and a curved, comfortable wrist rest to make typing a pleasure. The OIX 1410 is available in beige or black enclosure versions (please see ordering information box at right for more details). If you need a keyboard for a hazardous or contaminated environment, please consider the NEMA 4, 4X, and 6 keyboards listed on page 105.

Rack-Mount HulaPoint™ & GlidePoint™ Keyboards

CyberResearch offers rack-mount keyboards with HulaPoint pointing devices, such as the **OIX 7114** NEMA 12 keyboard and the **OIX 4110** rack-mount membrane keyboard Desktop HulaPoint devices and ultra-rugged trackball units are also available (see pages 108~111).



Ordering Information: Visit cyberresearch.com for detailed information.

#OIX 1310A	Rack-Mount Keyboard w/trackball, beige case & kbd...	\$195
#OIX 1310AR	OIX 1310 purchased with a complete system	\$150
#OIX 1310B	Rack-Mount Keyboard w/trackball, black case & kbd ...	\$195
#OIX 1310BR	OIX 1310B purchased with a complete system	\$150

OIX 1310A/B have a PS/2 keyboard connector and a PS/2 trackball connector. Both models include USB & DB-9 serial adapters for the trackball connector.

#OIX 1410-PS2	Cast Aluminum Rack-Mt Keybd. w/trackball, beige ..	\$595
#OIX 1410R-PS2	OIX 1410-PS2 purchased with a complete system	\$550
#OIX 1410B-PS2	Cast Aluminum Rack-Mt Keybd. w/trackball, black ..	\$595
#OIX 1410BR-PS2	OIX 1410B-PS2 purchased with a complete system	\$550

OIX 1410 has PS/2-style keyboard & PS/2 trackball/mouse connectors.

#OIX 1610	Rack-Mount Keyboard w/touchpad, beige case	\$350
#OIX 1610R	OIX 1610 purchased with a complete system	\$200
#OIX 1610-B	Rack-Mount Keyboard w/touchpad, black case	\$350
#OIX 1610R-B	OIX 1610-B purchased with a complete system	\$200

Special package price! Purchase an **OIX 1610** with a complete PC system for \$200 (save \$150!)

OIX 1610 has a PS/2 mini-DIN keyboard connector and a PS/2 touchpad connector, with adapters to a 5-pin DIN keyboard and DB-9 touchpad ports.

#OIX 1711W	MousePocket™ Keyboard Tray w/mouse, beige case...	\$195
#OIX 1711WR	OIX 1711W purchased with a complete system	\$150
#OIX 1711B	MousePocket™ Keyboard Tray w/mouse, black case...	\$195
#OIX 1711BR	OIX 1711B purchased with a complete system	\$150

OIX 1711 comes with a 5-pin DIN keyboard connector (with a PS/2 adapter) and a USB mouse connector (with 5-pin DIN adapter).

#OIX 1910W-U	Rack-Mount Keyboard w/touchpad, beige, USB	\$195
#OIX 1910WR-U	OIX 1910W-U purchased with a complete system	\$150
#OIX 1910W-P	Rack-Mount Keyboard w/touchpad, beige, PS/2	\$195
#OIX 1910WR-P	OIX 1910W-P purchased with a complete system	\$150
#OIX 1910B-P	Rack-Mount Keyboard w/touchpad, black, PS/2	\$195
#OIX 1910BR-P	OIX 1910B-P purchased with a complete system	\$150
#OIX 7114-PS2	Rack-Mt NEMA 12 Keybd w/HulaPoint, PS/2 (see p.110) ..	\$795

#OIX 4110	Rack-Mt NEMA 4 Membrane Kbd w/touchpad, PS/2	\$395
#OIX 2107	Standard Keyboard, plastic, desktop, beige case, PS/2 ...	\$45
#OIX 2107R	OIX 2107, purchased with a system (free on request)	\$Free
#OIX 2107-B	Standard Keyboard, plastic, desktop, black case, PS/2	\$45
#OIX 2107R-B	OIX 2107-B, purchased with a system (free on request) ...	\$Free
#OIX 0170B	Wireless (RF) Keybd, plastic, black (see web for info)	\$99

Save \$45 when you order an "R" keyboard with a PC system: The "R" version of the keyboard is supplied with your computer in place of the standard keyboard.

QUANTITY DISCOUNTS: 1-4/List 5-9/5% 10-24/10% 25+//CALL

Quantities of a Single Item Per Shipment – Call for Details

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Visit our website for detailed product information!

Rugged Stand-Alone NEMA 4X Trackball & HulaPoint Pointing Devices



Need a stand-alone pointing device that's built to withstand the rigors of virtually any tough industrial environment? The stand-alone trackball and HulaPoint pointing devices shown at left all meet NEMA 4X specifications.

The removable trackballs on our **OIX 4322/4312** models employ optical technology, so dirt and grime have a very minimal effect on their performance. The HulaPoint pointing device in our **OIX 4310/4320** models is formed with silicone rubber, so contamination from dust and dirt is eliminated. It features three buttons and a digital joystick with 10° of movement in any direction, offering full rotational travel and positive directional positioning. The buttons operate like those on a 3-button mouse, where the third button may be set up for double-clicking or drag-locking.

Ordering Information:

Visit cyberresearch.com for detailed information.

#OIX 4322-P	Panel-Mount Epoxy Trackball in Stainless-Steel Frame, PS/2.....	\$395
#OIX 4322-U	Panel-Mount Epoxy Trackball in Stainless-Steel Frame, USB	\$395
#OIX 4312-P	Desktop Epoxy Trackball in enclosed Stainless-Steel Case, PS/2.....	\$395
#OIX 4312-U	Desktop Epoxy Trackball in enclosed Stainless-Steel Case, USB	\$395
#OIX 4310	Benchtop NEMA 4X HulaPoint Pointing Device, Serial (9-pin D-sub F) ..	\$295
#OIX 4310-PS2	Benchtop NEMA 4X HulaPoint Pointing Device, PS/2.....	\$295
#OIX 4310-U	Benchtop NEMA 4X HulaPoint Pointing Device, USB	\$295
#OIX 4320	Panel-Mt NEMA 4X HulaPoint Pointing Device, Serial (9-pin D-sub F) ..	\$295
#OIX 4320-PS2	Panel-Mount NEMA 4X HulaPoint Pointing Device, PS/2.....	\$295
#OIX 4320-U	Panel-Mount NEMA 4X HulaPoint Pointing Device, USB	\$295

OIX 4322/4312/4310/4320 Principal Specifications

Materials: Case (all models): Stainless steel
Trackball: Epoxy resin
HulaPoint: Silicone rubber
Power: 5V @ 10 mA (from mouse connector port)
Operating Temperature: -40°F to +194°F (-40°C to +90°C)
Humidity: 0 to 100% (condensing or noncondensing)
OIX 4322 Dimensions: 5.0"W x 5.5"H x 1.5"D (127 x 140 x 38 mm)
OIX 4312 Dimensions: 4.0"W x 6.0"H x 2.0"D (102 x 152 x 52 mm)
OIX 4310 Dimensions: 4.9"W x 4.9"H x 1.4"D (125 x 125 x 36 mm)
OIX 4320 Dimensions: 6.0"W x 6.0"H x 0.75"D (152 x 152 x 19 mm)



Optical Mouse for Harsh Industrial Environments

Our new **OIX 0302** full-size two-button optical mouse is built tough: it has a rugged anti-bacterial, nonporous silicone rubber shell. As a result, it can withstand the kinds of rigorous environments that can render other types of pointing devices useless.

It's truly water resistant, and can even be temporarily immersed. Even under water, it still works.

The **OIX 0302** has a thin 6.3' cable that easily attaches to your PC, either by the USB connector or the included PS/2 adapter.

Ordering Information:

Visit cyberresearch.com for detailed information.

#OIX 0302 NEMA 4 (IP 66) Two-Button Optical Mouse; black case, USB (PS/2 adapter included) ...\$109

NEMA 6 Keyboards for Temporary Immersion

When the going gets wet, tough-minded engineers pick **OIX 6805** series NEMA 6 keyboards from CyberResearch, Inc. Specially sealed with a flexible elastomeric coating, this dustproof family of keyboards withstands even temporary immersion in fresh or salt water.

Measuring 15.3"W x 5.7"D x 1.1"H, OIX 6805 keyboards can be placed on any desk or benchtop, and easily fit in 1U 19-inch rack drawers. Available in light grey (RAL 9002) or black, the discrete mechanical keys protected by the elastomer provide excellent feedback for touch typing. These keyboards come with a mouse button that most mouse users consider to be easier to use and more intuitive than touchpads.

Other NEMA 4 and NEMA 6 keyboards, keyboard emulators, and keyboard combiners on pages 109-110 and 125!



Need the details? Our keyboard comparison chart is on pg. 105!

OIX 6805B-P

Only \$495



Ordering Information:

Visit cyberresearch.com for detailed information.

NEMA 6 Benchtop Industrial Keyboards

#OIX 6805-P	105-key Keyboard with Mouse Button, PS/2, light grey	\$495
#OIX 6805B-P	105-key Keyboard with Mouse Button, PS/2, black	\$495

QUANTITY DISCOUNTS: 1-4/LIST 5-9/5% 10-24/10% 25+/CALL Quantities of a single item per shipment. Call for details.

Illuminated NEMA 4/4X "Mailman" Keyboards



BY NIGHT...



...BY DAY



Key Features

- Industrial silicone rubber sealed keyboard resists falling snow, rain, hose-directed water, dirt, dust, external ice, and common corrosives
- Fully operational from -40°F to $+194^{\circ}\text{F}$
- Backlit keys aid typing in low-light areas
- Integral 3-button HulaPoint pointing device
- Low power consumption: draws only 30mA @ 5V

We call our **OIX 7005B** & **OIX 7105B** keyboards the "Mailman" series because *nothing* stops them. Not only do they shrug off snow, rain, heat, darkness, and dirt, they can also withstand 11 ms shock pulses up to 50 gravities (1,610 ft/s²).

A slightly tilted surface makes the OIX 7105B easier for touch typists to use, and threaded mounting holes in the base make it easy to mount on a tray or pedestal. The 0.88" height of OIX 7005B is ideal for placement in a 1U rack drawer. Both units can also be used on a desktop or benchtop.

OIX 7005B

side view

Great for
1U rack
drawers!



OIX 7005B keyboards are ideal for 1U rack drawers, measuring 14.56"W x 0.88"H x 5.52"D.
OIX 7105B models provide a slight tilt for easier typing and measure 14.74"W x 1.69"H x 5.66"D

OIX 7105B

side view



Ordering Information:

For detailed keyboard comparisons, see page 105.

#OIX 7005B-P	102-key Drawer-Mount Keyboard, PS/2 connectors	\$595
#OIX 7005BR-P	OIX 7005B-P purchased with a complete system	\$550
#OIX 7005B-U	102-key Drawer-Mount Keyboard, USB connectors.....	\$595
#OIX 7005BR-U	OIX 7005B-U purchased with a complete system	\$550
#OIX 7105B-P	102-key Bench/Mobile Keyboard, PS/2 connectors	\$595
#OIX 7105BR-P	OIX 7105B-P purchased with a complete system	\$550
#OIX 7105B-U	102-key Bench/Mobile Keyboard, USB connectors.....	\$595
#OIX 7105BR-U	OIX 7105B-U purchased with a complete system	\$550

A NEMA 6 Keyboard You Can Use in the Dark!

Backlit keys are colored according to their functionality — and can be brightened or darkened based upon ambient light levels.

OIX 4087

Sealed elastomeric coating protects against complete submersion



**Only
\$295**

Mouse button
pointing
device

NEMA 6 Rated!

Our robust waterproof **OIX 4087** is a full-featured 87-key keyboard with 12 function keys and a built-in mouse-button pointing device. It keeps your applications working in all kinds of weather and in almost any type of industrial environment. Experienced touch typists like the positive-feedback keys and the ultra-comfortable feel of the silicone rubber sealing material.

The silicone rubber resists not only water but most common industrial coolants and lubricants. Sealed to NEMA 6 (IP68) standards, it resists spills, splashes, and even rain. Its trim size of 11.9"W x 6.9"D x 1.8"H (303 x 174 x 45 mm) makes it ideal for tight spaces. Adjustable multi-color backlit keys mean you can use the OIX 4087 in ordinary light, dim light, or total darkness!

OIX 4087 Principal Specifications

Materials:	Industrial silicone rubber w/ metal framework
Backlighting:	4 colors: red (alpha/numeric), orange (function keys), blue (other data entry keys), yellow (numeric keys when "Num Lock" is enabled; keys are red when disabled); four levels of illumination (including off)
Cable/Connectors:	Detachable 8-ft Y cable; 2 x PS/2 6-pin mini-DIN (one for keyboard, one for mouse button)
Operating Temperatures:	-32°F to $+122^{\circ}\text{F}$ (0°C to $+50^{\circ}\text{C}$)
Humidity:	0 to 85%, noncondensing
Shock:	10 g p-p for 11 ms
Vibration:	5 Hz to 17 Hz: 0.1" double-amplitude displacement. 17 to 640 Hz: 1.5 g p-p
Dimensions:	11.9"W x 1.8"H x 6.9"D (303 x 45 x 174 mm)

Ordering Information:

For detailed keyboard comparisons, see page 105.

NEMA 6 (IP68) Illuminated Industrial Keyboards

#OIX 4087-P	87-key Desktop Keyboard w/ Backlit Keys & Mouse Button, PS/2.....	\$295
#OIX 4087R-P	OIX 4087-P purchased with a complete system	\$250

Save \$45 when you order an "R" keyboard with a PC system:

The "R" version of the keyboard is supplied with your computer in place of the standard keyboard.

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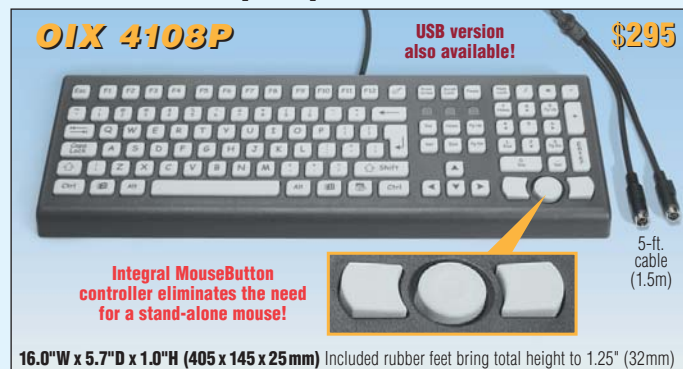
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Applications Engineers: Monday – Friday, 9:00 AM – 5:00 PM, U.S. Eastern Time • e-mail: info@cyberresearch.com

www.cyberresearch.com

Visit our website for detailed product information!

NEMA 4 Desktop Keyboard with MouseButton



Our 108-key **OIX 4108** NEMA 4 sealed desktop keyboards have an impact-resistant charcoal ABS plastic case with galvanized steel bottom, and industrial silicone beige rubber keys. Features include a two-button pointing device for cursor control, two Windows® keys, and 12 function keys. The 5-foot cable terminates in a "Y" with separate connectors for mouse and keyboard. Choose PS/2 connectors (**OIX 4108P**) or USB connectors (**OIX 4108U**).

Operating Temp.: -4° to +176°F (-20° to +80°C). *Weight:* 2.9 lb. (1.32kg). *Key Travel:* 0.06" (1.5 mm). *Key Actuation Force:* 0.4 lbs (180g). *Key Feedback:* short-travel silicone rubber. *Case Color:* charcoal. *Keycap Color:* beige. *Keyswitch Life:* 1M actuations.

Ordering Information: For keyboard comparisons, see page 105.

Desktop NEMA 4 Keyboards with MouseButton Pointing Device

#**OIX 4108P** Desktop Keyboard with MouseButton, PS/2\$295
#**OIX 4108U** Desktop Keyboard with MouseButton, USB\$295

Stainless Steel NEMA 12 Desktop Keyboard



CyberResearch's **OIX 7114D** meets NEMA 4, 4X, 12, & 13 specifications (see Tech Note: pg. 54) and is reliable under the most severe conditions. Each keyswitch is protected by silicone rubber for maximum chemical resistance without sacrificing tactile feel. The keyboard has 114 keys, including 20 function keys.

The **HulaPoint™** pointing device is formed with the same silicone rubber as the keys, so contamination from dust and dirt is eliminated. It features three buttons and a digital joypad with 10° of movement in any direction, offering full rotational travel and positive directional positioning. The buttons operate like those on a standard three-button mouse, where the third button may be set up for double-clicking or drag-locking.

Ordering Information: For keyboard comparisons, see page 105.

#**OIX 7114D** Stainless Steel Keyboard w/HulaPoint, Serial/AT..\$695
#**OIX 7114D-PS2** Stainless Steel Keyboard w/HulaPoint, PS/2\$695
#**OIX 7114D-U** Stainless Steel Keyboard w/HulaPoint, USB.....\$695

Polycarbonate NEMA 4X Desktop Keyboard



The **OIX 4116D** is a 116-key desktop keyboard with a black ABS polycarbonate plastic case. Sealed to NEMA 4X specifications, its waterproof interface surface is a single sheet of industrial silicone rubber that is perfect for messy or harsh environments. If it gets dirty, it can be washed or even hosed down! It features a built-in 3-button HulaPoint pointing device, two Windows keys, & 24 function keys. All keys are fully sealed so contaminants cannot get into the electronics. Even the cable entry has been designed to keep out water, dust, & contaminants.

The **OIX 4116D** has a 10-ft. cable that either terminates in a "Y" with standard PS/2 6-pin mini-DIN connectors for keyboard & mouse (**OIX 4116D-PS2** model) or USB connectors for keyboard & mouse (**OIX 4116D-U**). *Op. Temp.:* -40° to +194°F (-40° to +90°C).

Ordering Information: For keyboard comparisons, see page 105.

Desktop NEMA 4X Keyboards with HulaPoint Pointing Device

#**OIX 4116D-PS2** Polycarbonate Keyboard w/ HulaPoint, PS/2 ..\$595
#**OIX 4116D-U** Polycarbonate Keyboard w/ HulaPoint, USB..\$595

Ultra Low-Profile NEMA 6 Desktop Keyboard



Our **OIX 3116B-U** is a 104-key industrial desktop keyboard that is fully encased in silicone rubber. It is fully sealed to NEMA 6 specifications — dust-proof, water-resistant, and even temporarily immersible. If you're looking for a low-profile keyboard, with Windows keys, you're unlikely to find one any thinner: measuring only 0.58" high, the **OIX 3116B-U** is the thinnest full-function keyboard we've ever seen! It has a 6-foot PVC cable with a standard USB type A connector.

Operating Temperature: +32° to +158°F (0° to +70°C). *Weight:* 1.5 lb. (0.68kg). *Key Feedback:* short-travel black rubber keys. *Case:* 100% silicone rubber keyboard w/PVC cable (latex-free).

Ordering Information: For keyboard comparisons, see page 105.

Ultra Low-Profile NEMA 6 Fully Encased Desktop Keyboard

#**OIX 3116B-U** Sealed NEMA 6 Desktop Keyboard, USB\$249

Save \$45 when you purchase a keyboard with a CyberResearch computer system!

When you order an "R" version of a keyboard from these two pages, it will be supplied with your computer in place of the standard keyboard (call or see our website for details).

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INDUSTRIAL DESKTOP, PANEL- & RACK-MOUNT KEYBOARDS

Stainless Steel NEMA 12 Panel-Mt Keyboard

OIX 7114P

\$695



17.7"W x 9.2"D x 1.76"H (450 x 234 x 45 mm)

Integral HulaPoint pointing device

If the stainless steel NEMA 12 desktop keyboard at left caught your eye, but you have an application that demands a panel-mount keyboard, then the **OIX 7114P** is especially for you. All of the sturdiness and functionality of the OIX 7114D desktop keyboard — including a stainless steel panel, durable and sealed silicone rubber keyswitches, and the intuitive HulaPoint™ cursor control — can be found on our panel-mount OIX 7114P. To install this keyboard you only need a 6.9" high by 15.4" wide panel-mount cut-out and 1.5" minimum of depth behind the panel. *Operating Temperature for all OIX 7114 series models: -40° to +194°F (-40° to +90°C).*

Ordering Information:

For keyboard comparisons, see page 105.

- #OIX 7114P Stainless Steel Keyboard w/HulaPoint, Serial/AT...\$695
- #OIX 7114P-PS2 Stainless Steel Keyboard w/HulaPoint, PS/2....\$695
- #OIX 7114P-U Stainless Steel Keyboard w/HulaPoint, USB.....\$695

RF Wireless NEMA 4X Desktop Keyboard

OIX 7116-U

Integral RF antenna gives 30-foot range!

\$595

Keyboard powered by three AA batteries (included)



15"W x 7.2"D x 1.6"H (381 x 183 x 41 mm)

Wireless

Integral HulaPoint pointing device

USB dongle

Our light but rugged **OIX 7116-U** wireless keyboard is fully featured, including 116 keys with 24 function keys and a built-in HulaPoint pointing device. And unlike IR wireless keyboards, this RF model does not need line-of-sight orientation to work properly. Just plug the included USB dongle into your PC, insert three AA batteries (also included) into the battery compartment located on the back of the keyboard, and you're ready to type from virtually any location up to 30 feet away!

The silicone rubber surface coating resists not only water but most common industrial coolants & lubricants. Sealed to NEMA 4X (IP65) standards, it resists spills, splashes, and hose-directed water. And harsh environments? Not a problem: the unit is fully operational from **-40° to +203°F (-40° to +95°C)**.

Ordering Information:

For more info/pictures, see pages 14 & 105.

RF Wireless NEMA 4X Keyboard with HulaPoint Pointing Device

#OIX 7116-U Wireless Desktop Keyboard w/HulaPoint, USB...\$595

Package includes one wireless keyboard, one USB dongle, & three AA batteries.

NEMA 4X Rack-Mount Membrane Keyboard

OIX 4102

\$195



19"W x 1.18"D x 5.25"H (483 x 30 x 133 mm)

Ideal for rack-mount applications!
Just 5.25" (3U) high and 1.2" deep!

Sealed membrane keyboards are liquid resistant and ideal for environments where a high degree of moisture is present, or where condensation or particulate matter might pose problems for regular keyboards.

Our **OIX 4102** 105-key rack-mount NEMA 4X keyboard is made of heavy-gauge steel. Keys provide slight tactile feedback with mechanical snap. The unit's coiled keyboard cable terminates with a 6-pin PS/2 connector and measures 38" when coiled (60" when stretched). *Operating Temperature: +32° to +140°F (0° to +60°C). Weight: 4.08 lb. (1.85kg).*

Ordering Information:

For keyboard comparisons, see page 105.

NEMA 4X Rack-Mount Membrane Keyboard

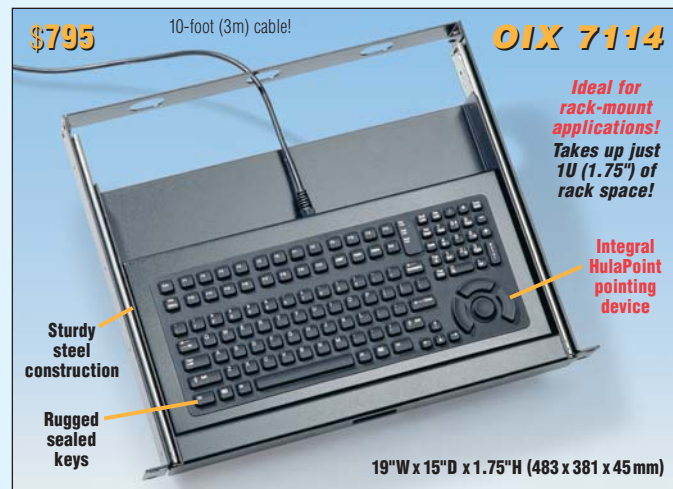
#OIX 4102 Rack-Mount Membrane Keyboard, PS/2.....\$195

Rack-Mt NEMA 12 Keyboard with HulaPoint™

\$795

10-foot (3m) cable!

OIX 7114



Sturdy steel construction

Rugged sealed keys

Ideal for rack-mount applications!
Takes up just 1U (1.75") of rack space!

Integral HulaPoint pointing device

19"W x 15"D x 1.75"H (483 x 381 x 45 mm)

The **OIX 7114** is a rack-mount drawer version of our OIX 7114D desktop & OIX 7114P panel-mount models shown above. The rugged OIX 7114 is constructed of steel and its keyboard features durable and sealed silicone rubber keyswitches and an intuitive HulaPoint cursor control. The unit mounts easily into any standard EIA rack and takes up only 1U (1.75") of rack space! For more rack-mount keyboards, see pages 100–107.

Ordering Information:

For keyboard comparisons, see page 105.

- #OIX 7114 Rack-Mount Keyboard w/HulaPoint, Serial/AT....\$795
- #OIX 7114-PS2 Rack-Mount Keyboard w/HulaPoint, PS/2.....\$795
- #OIX 7114-U Rack-Mount Keyboard w/HulaPoint, USB\$795

QUANTITY DISCOUNTS: 1-4/List 5-9/5% 10-24/10% 25+/CALL

Quantities of a single item per shipment. Call for details.

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